A cold cathode field emission device comprising

(a) a cathode electrode formed on a supporting substrate,
and (b) a gate electrode which is formed above the
cathode electrode and has an opening portion, and
further comprising (c) an electron emitting portion
composed of a carbon film formed on a surface of a
portion of the cathode electrode which portion is
positioned in a bottom portion of the opening portion.

South given given from the compared of the com

the state of the s